

# BERTSCHenergy

Power plants  
Process equipment

90  
YEARS

TRADITION  
QUALITY  
KNOW-HOW  
SINCE 1925

## Heat Recovery Plant for Hydrogen Production

Reference Sheet



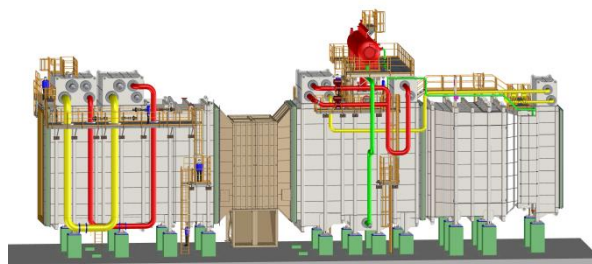
**BERTSCH**

TRADITION, QUALITY, KNOW-HOW. SINCE 1925

## »Heat Recovery Plants for Hydrogen Production in the USA -Commissioning 2<sup>nd</sup> – 4<sup>th</sup> quarter 2012«

Heat should be recovered from the flue gas of the reformer in order to produce steam as well as to heat up steam, combustion air and different gas-steam mixtures. Our **thermotechnical, static and finite element calculations** as well as **3D and 2D constructions** lead to optimized components (**e.g. modular construction methods**).

Optimal component quality is achieved through highly specialized manufacturing techniques (**e.g. automated nipple welding**).



### 2 complete heat recovery systems

#### TECHNICAL DATA

|                        |                                        |
|------------------------|----------------------------------------|
| » Design-code          | ASMEI, VIII/Div. 1, S-Stamp<br>U-Stamp |
| » Main material        | P91, austenitic materials,...          |
| » Flue gas flow/plant  | 355,000 m <sup>3</sup> n/h             |
| » Thermal power/plant  | 136 MW                                 |
| » Weight single module | between 56 and 87 to                   |



#### SCOPE OF SUPPLY

|                        |  |
|------------------------|--|
| » Heating surface      |  |
| » Steam drum and pipes |  |
| » Quench cooler        |  |
| » Refractory lining    |  |
| » Duct elements        |  |
| » Steel structure      |  |

